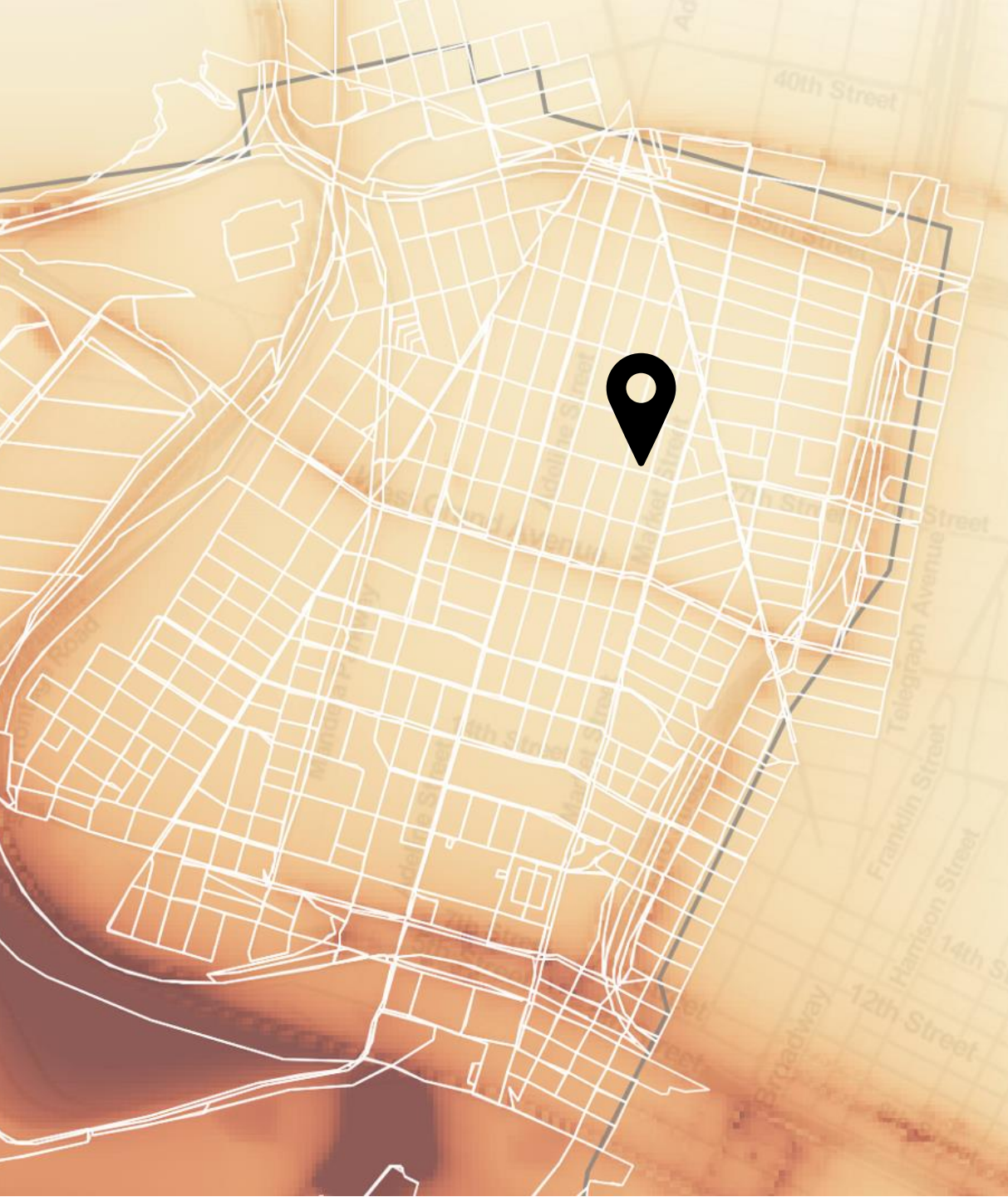
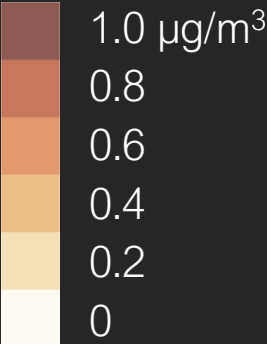


McClymonds High School

Diesel PM

2019-03-04



Impact Zone:

None

Impacts on Diesel PM ($\mu\text{g}\cdot\text{m}^{-3}$)			
Highway			
Heavy/Medium HD trucks	0.035	19%	0.035
Passenger vehicles	0.003	2%	0.003
Light HD trucks	0.001	1%	0.001
Street			
Heavy/Medium HD trucks	0.036	20%	0.036
Passenger vehicles	0.003	2%	0.003
Light HD trucks	0.002	1%	0.002
Port			
Harbor craft	0.021	12%	0.021
OGV (berthing)	0.017	9%	0.017
OGV (maneuvering)	0.011	6%	0.011
Cargo handling	0.003	2%	0.003
Drayage trucks†	0.003	2%	0.003
Dredging	0.002	1%	0.002
Bunkering (tugs + pumps)	0.001	1%	0.001
Railyard (BNSF)	0.001	1%	0.001
Railyard (OGRE)	0.001	1%	0.001
Rail			
Rail lines	0.013	7%	0.013
Railyard (UP)	0.010	6%	0.010
Permitted			
EBMUD	0.002	1%	0.002
Other facilities	0.001	1%	0.001
Other			
Schnitzer (trucks)	0.006	3%	0.006
Ferries	0.005	3%	0.005
Schnitzer (ships at berth)	0.002	1%	0.002
Truck-related businesses	0.001	1%	0.001
		0.180	100%

* Impacts at McClymonds High School.
† Excluding construction, cooking, and road dust.
‡ Drayage trucks = any location (Port, street, or highway).

McClymonds High School

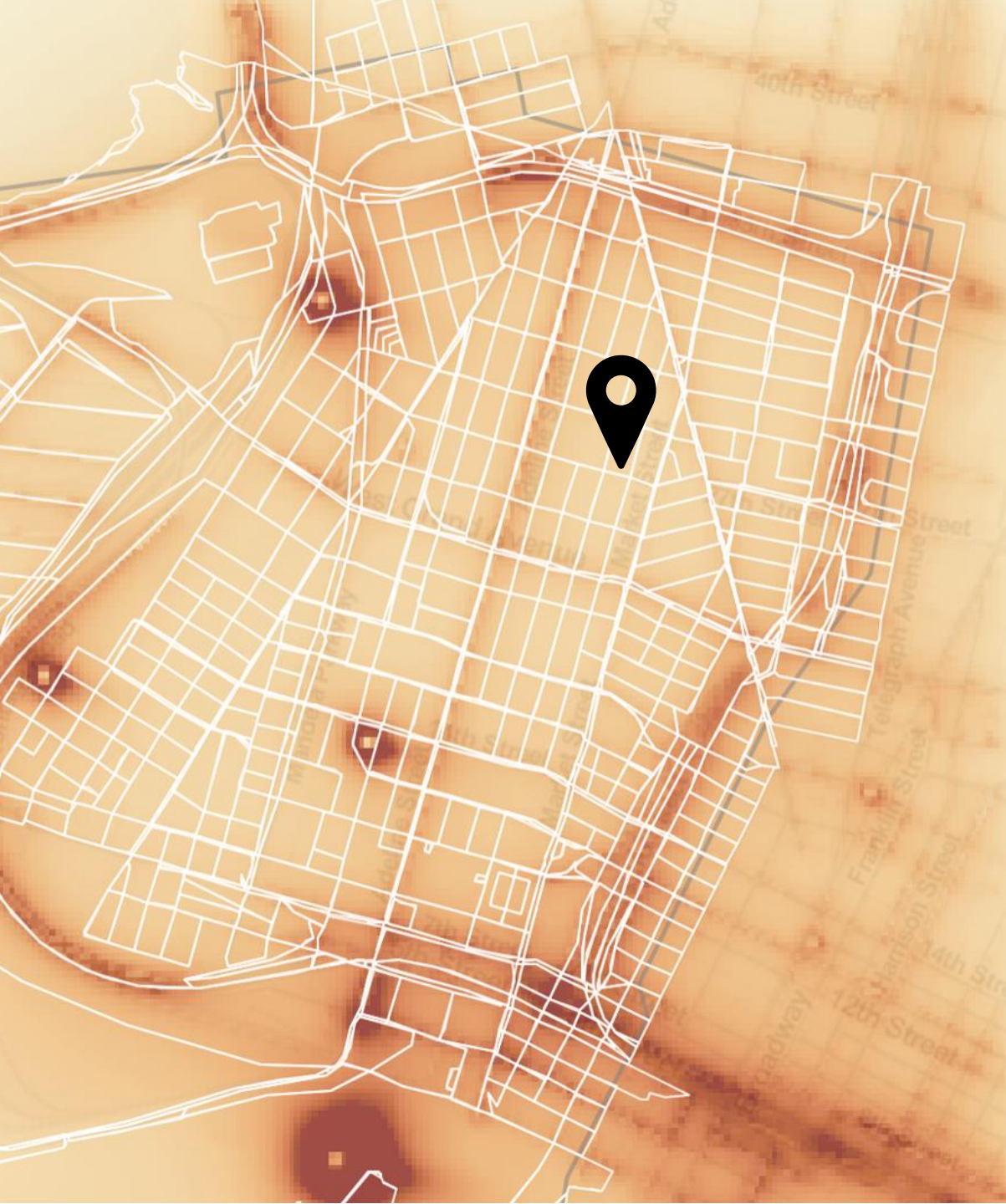
PM_{2.5}

2019-03-04



Impact Zone:

None



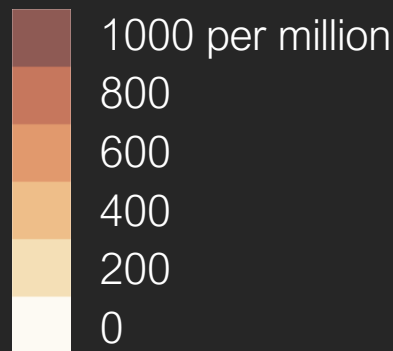
Impacts on PM _{2.5} (µg·m ⁻³)				
Highway				
Passenger vehicles	0.162	23%	0.162	
Heavy/Medium HD trucks	0.044	6%	0.044	
Light HD trucks	0.006	1%	0.006	
Street				
Passenger vehicles	0.132	19%	0.132	
Heavy/Medium HD trucks	0.044	6%	0.044	
Light HD trucks	0.006	1%	0.006	
Port				
OGV (berthing)	0.024	3%	0.024	
Harbor craft	0.021	3%	0.021	
OGV (maneuvering)	0.011	2%	0.011	
Drayage trucks†	0.009	1%	0.009	
Cargo handling	0.003	0%	0.003	
Dredging	0.002	0%	0.002	
Bunkering (tugs + pumps)	0.001	0%	0.001	
Passenger vehicles	0.001	0%	0.001	
Rail yard (BNSF)	0.001	0%	0.001	
Rail yard (OGRE)	0.001	0%	0.001	
Rail				
Rail lines	0.012	2%	0.012	
Rail yard (UP)	0.009	1%	0.009	
Permitted				
EBMUD	0.049	7%	0.049	
Sierra Pacific	0.047	7%	0.047	
Other facilities	0.030	4%	0.030	
Schnitzer (stationary)	0.024	3%	0.024	
CASS	0.021	3%	0.021	
California Cereal	0.015	2%	0.015	
CA Waste (10th St)	0.006	1%	0.006	
Other				
Ferries	0.005	1%	0.005	
Schnitzer (trucks)	0.005	1%	0.005	
Schnitzer (ships at berth)	0.002	0%	0.002	
Truck-related businesses	0.001	0%	0.001	
		0.694	100%	

* Impacts at McClymonds High School.
† Excluding construction, cooking, and road dust.
‡ Drayage trucks = any location (Port, street, or highway).

McClymonds High School

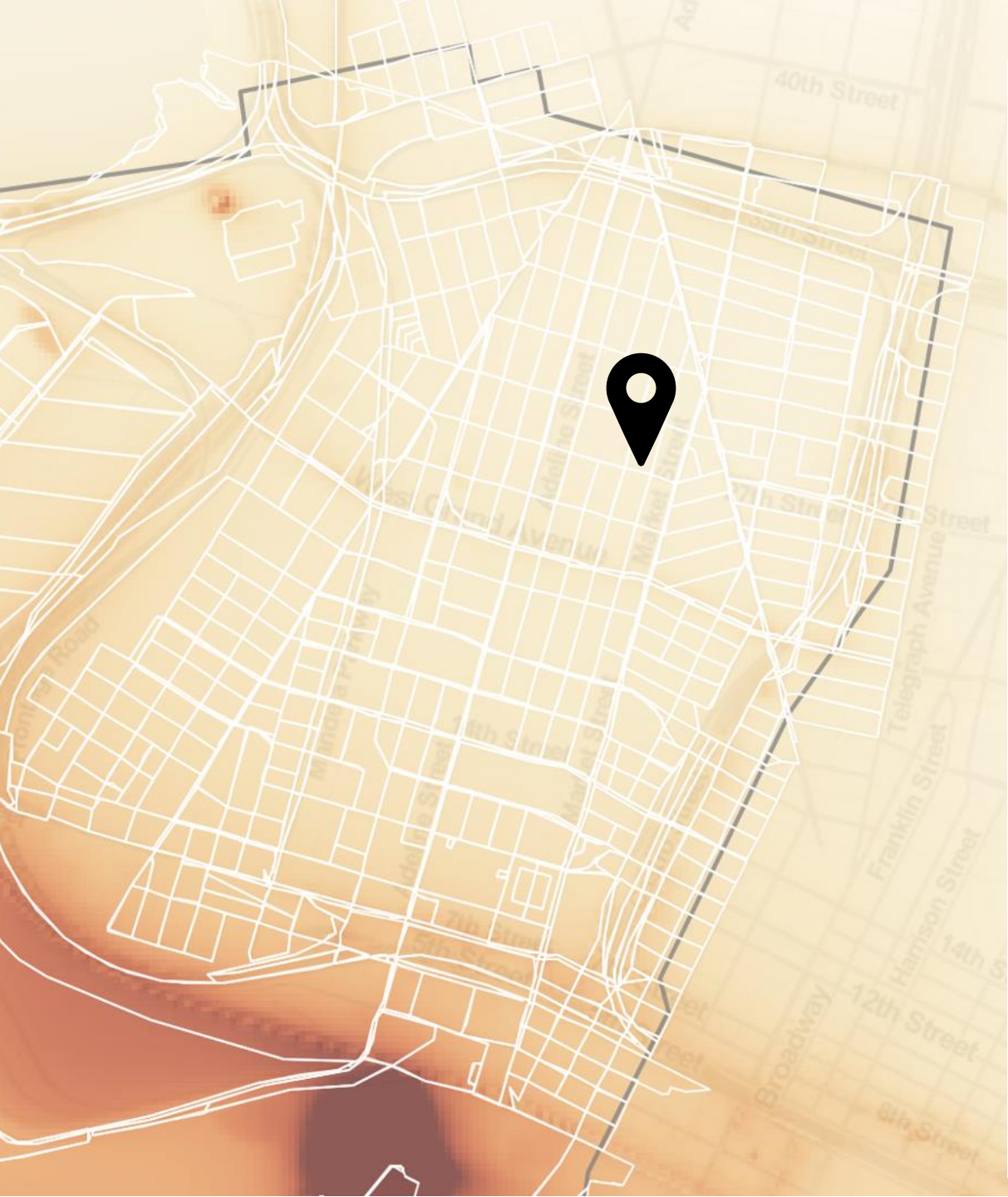
Cancer Risk

2019-03-04



Impact Zone:

None



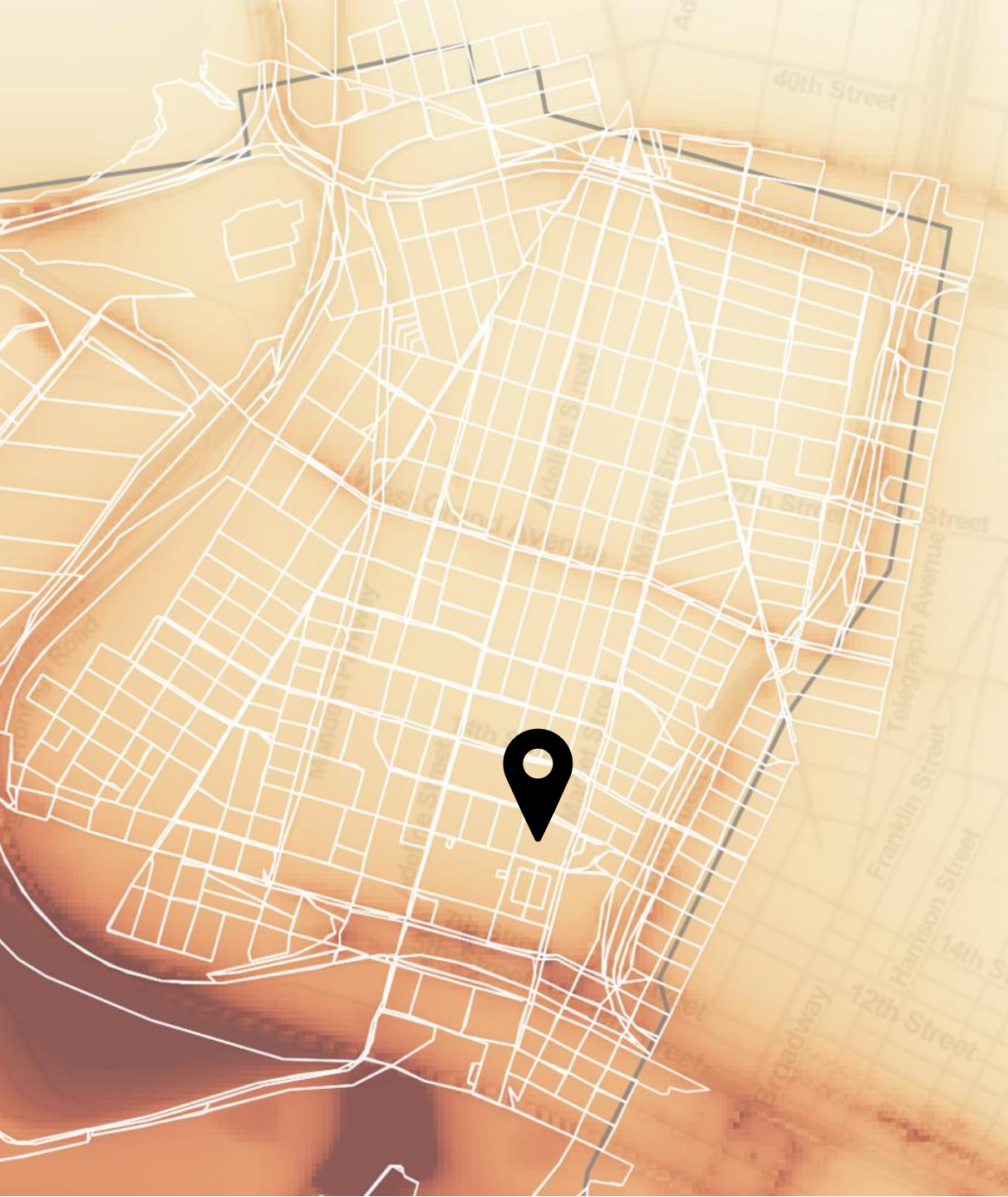
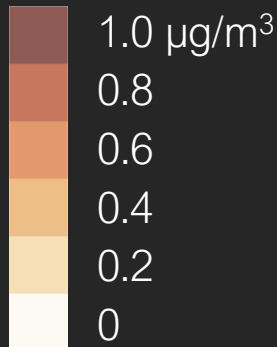
Impacts on Cancer Risk (30-yr, per million)			
Highway			
Heavy/Medium HD trucks	12.8	11%	12.8
Passenger vehicles	3.2	3%	3.2
Light HD trucks	0.9	1%	0.9
Street			
Heavy/Medium HD trucks	12.4	11%	12.4
Passenger vehicles	3.7	3%	3.7
Light HD trucks	1.0	1%	1.0
Port			
Harbor craft	15.8	14%	15.8
OGV (berthing)	12.7	11%	12.7
OGV (maneuvering)	8.2	7%	8.2
Cargo handling	2.2	2%	2.2
Drayage trucks†	1.8	2%	1.8
Dredging	1.2	1%	1.2
Railyard (OGRE)	1.0	1%	1.0
Railyard (BNSF)	0.9	1%	0.9
Bunkering (tugs + pumps)	0.7	1%	0.7
Rail			
Rail lines	9.7	8%	9.7
Railyard (UP)	7.5	6%	7.5
Permitted			
Schnitzer (stationary)	7.0	6%	7.0
EBMUD	2.3	2%	2.3
Other facilities	1.3	1%	1.3
Other			
Schnitzer (trucks)	4.1	4%	4.1
Ferries	3.8	3%	3.8
Schnitzer (ships at berth)	1.7	1%	1.7
Truck-related businesses	0.7	1%	0.7
		116.6	100%

* Impacts at McClymonds High School.
† Excluding construction, cooking, and road dust.
‡ Drayage trucks = any location (Port, street, or highway).

Martin Luther King Jr
Elementary School

Diesel PM

2019-03-04



Impacts on Diesel PM (µg·m ⁻³)				
Highway				
Heavy/Medium HD trucks	0.036	12%	0.036	
Passenger vehicles	0.003	1%	0.003	
Light HD trucks	0.001	0%	0.001	
Street				
Heavy/Medium HD trucks	0.058	20%	0.058	
Passenger vehicles	0.004	1%	0.004	
Light HD trucks	0.002	1%	0.002	
Port				
Harbor craft	0.039	13%	0.039	
OGV (berthing)	0.027	9%	0.027	
OGV (maneuvering)	0.017	6%	0.017	
Drayage trucks†	0.006	2%	0.006	
Cargo handling	0.005	2%	0.005	
Dredging	0.003	1%	0.003	
Bunkering (tugs + pumps)	0.002	1%	0.002	
Railyard (BNSF)	0.002	1%	0.002	
Railyard (OGRE)	0.002	1%	0.002	
Rail				
Railyard (UP)	0.026	9%	0.026	
Rail lines	0.021	7%	0.021	
Permitted				
EBMUD	0.001	0%	0.001	
Other facilities	0.001	0%	0.001	
Other				
Schnitzer (trucks)	0.019	7%	0.019	
Ferries	0.011	4%	0.011	
Schnitzer (ships at berth)	0.005	2%	0.005	
Truck-related businesses	0.001	0%	0.001	
0.292 100%				

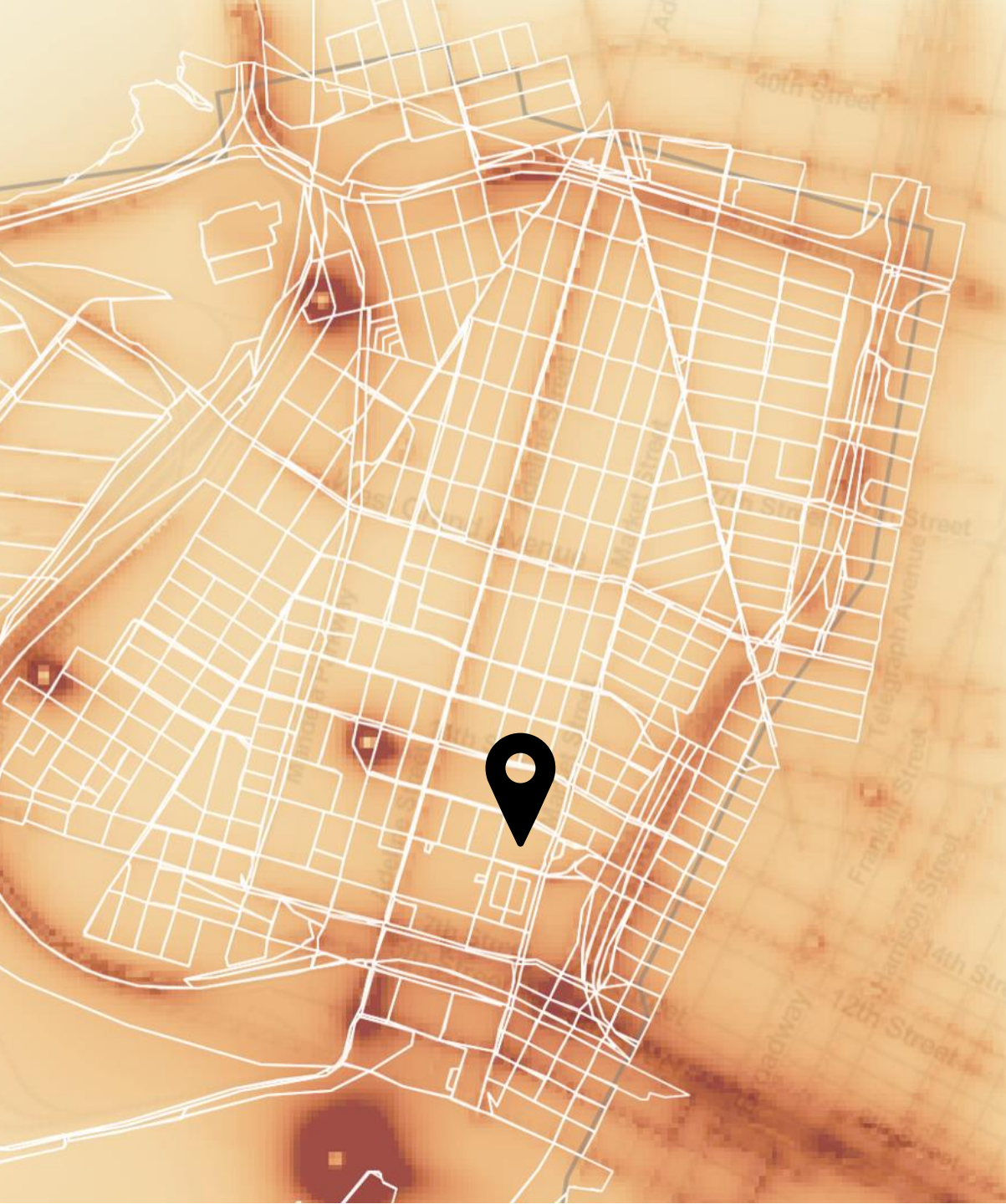
* Impacts at Martin Luther King Jr Elementary School.
† Excluding construction, cooking, and road dust.
‡ Drayage trucks = any location (Port, street, or highway).

Impact Zone:

Martin Luther King Jr.
Elementary School

PM_{2.5}

2019-03-04



Impact Zone:

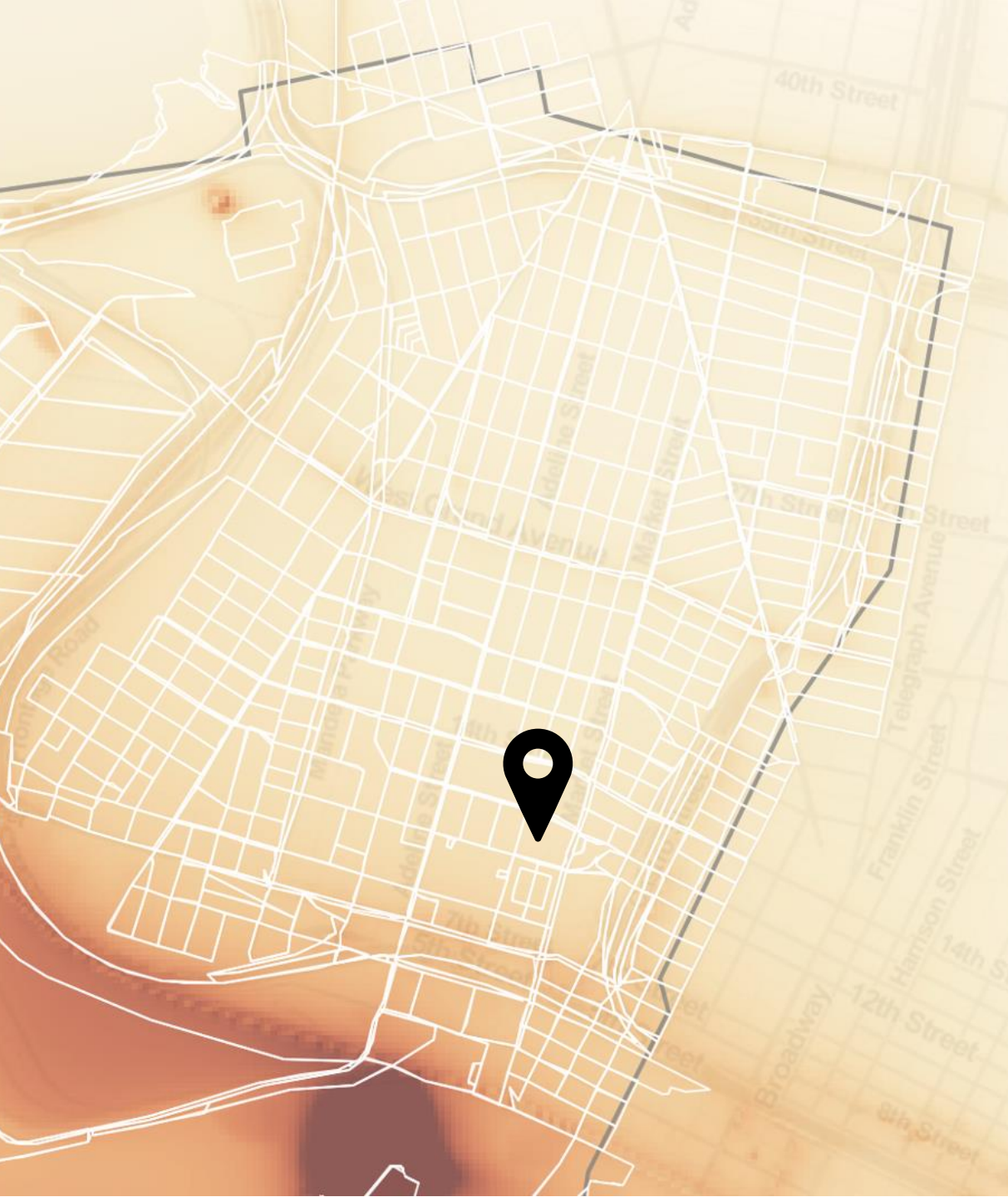
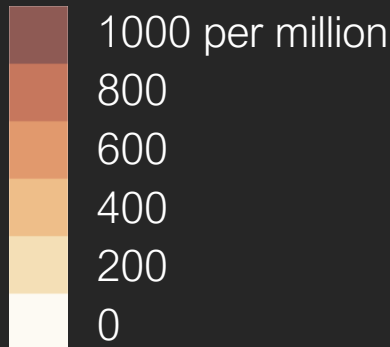
Impacts on PM _{2.5} (µg·m ⁻³)			
Highway			
Passenger vehicles	0.142	16%	0.142
Heavy/Medium HD trucks	0.045	5%	0.045
Light HD trucks	0.006	1%	0.006
Street			
Passenger vehicles	0.168	19%	0.168
Heavy/Medium HD trucks	0.070	8%	0.070
Light HD trucks	0.007	1%	0.007
Port			
Harbor craft	0.038	4%	0.038
OGV (berthing)	0.037	4%	0.037
OGV (maneuvering)	0.018	2%	0.018
Drayage trucks†	0.017	2%	0.017
Cargo handling	0.005	1%	0.005
Dredging	0.003	0%	0.003
Bunkering (tugs + pumps)	0.002	0%	0.002
Railyard (BNSF)	0.002	0%	0.002
Railyard (OGRE)	0.002	0%	0.002
Passenger vehicles	0.001	0%	0.001
Rail			
Railyard (UP)	0.024	3%	0.024
Rail lines	0.019	2%	0.019
Permitted			
California Cereal	0.087	10%	0.087
Schnitzer (stationary)	0.081	9%	0.081
Other facilities	0.033	4%	0.033
EBMUD	0.027	3%	0.027
Sierra Pacific	0.018	2%	0.018
CA Waste (10th St)	0.016	2%	0.016
CASS	0.003	0%	0.003
Other			
Schnitzer (trucks)	0.018	2%	0.018
Ferries	0.011	1%	0.011
Schnitzer (ships at berth)	0.005	1%	0.005
Truck-related businesses	0.001	0%	0.001
		0.906	100%

* Impacts at Martin Luther King Jr Elementary School.
† Excluding construction, cooking, and road dust.
‡ Drayage trucks = any location (Port, street, or highway).

Martin Luther King Jr.
Elementary School

Cancer Risk

2019-03-04



Impacts on Cancer Risk (30-yr, per million)			
Highway			
Heavy/Medium HD trucks	13.3	6%	13.3
Passenger vehicles	2.7	1%	2.7
Light HD trucks	0.9	0%	0.9
Street			
Heavy/Medium HD trucks	19.7	10%	19.7
Passenger vehicles	4.7	2%	4.7
Light HD trucks	1.3	1%	1.3
Port			
Harbor craft	28.9	14%	28.9
OGV (berthing)	19.7	10%	19.7
OGV (maneuvering)	12.8	6%	12.8
Cargo handling	3.7	2%	3.7
Drayage trucks†	3.5	2%	3.5
Dredging	2.4	1%	2.4
Railyard (BNSF)	1.7	1%	1.7
Railyard (OGRE)	1.6	1%	1.6
Bunkering (tugs + pumps)	1.3	1%	1.3
Rail			
Railyard (UP)	19.6	10%	19.6
Rail lines	15.4	7%	15.4
Permitted			
Schnitzer (stationary)	24.2	12%	24.2
EBMUD	1.3	1%	1.3
Other facilities	1.2	1%	1.2
Other			
Schnitzer (trucks)	13.9	7%	13.9
Ferries	8.4	4%	8.4
Schnitzer (ships at berth)	3.5	2%	3.5
Truck-related businesses	0.6	0%	0.6
		206.3	100%

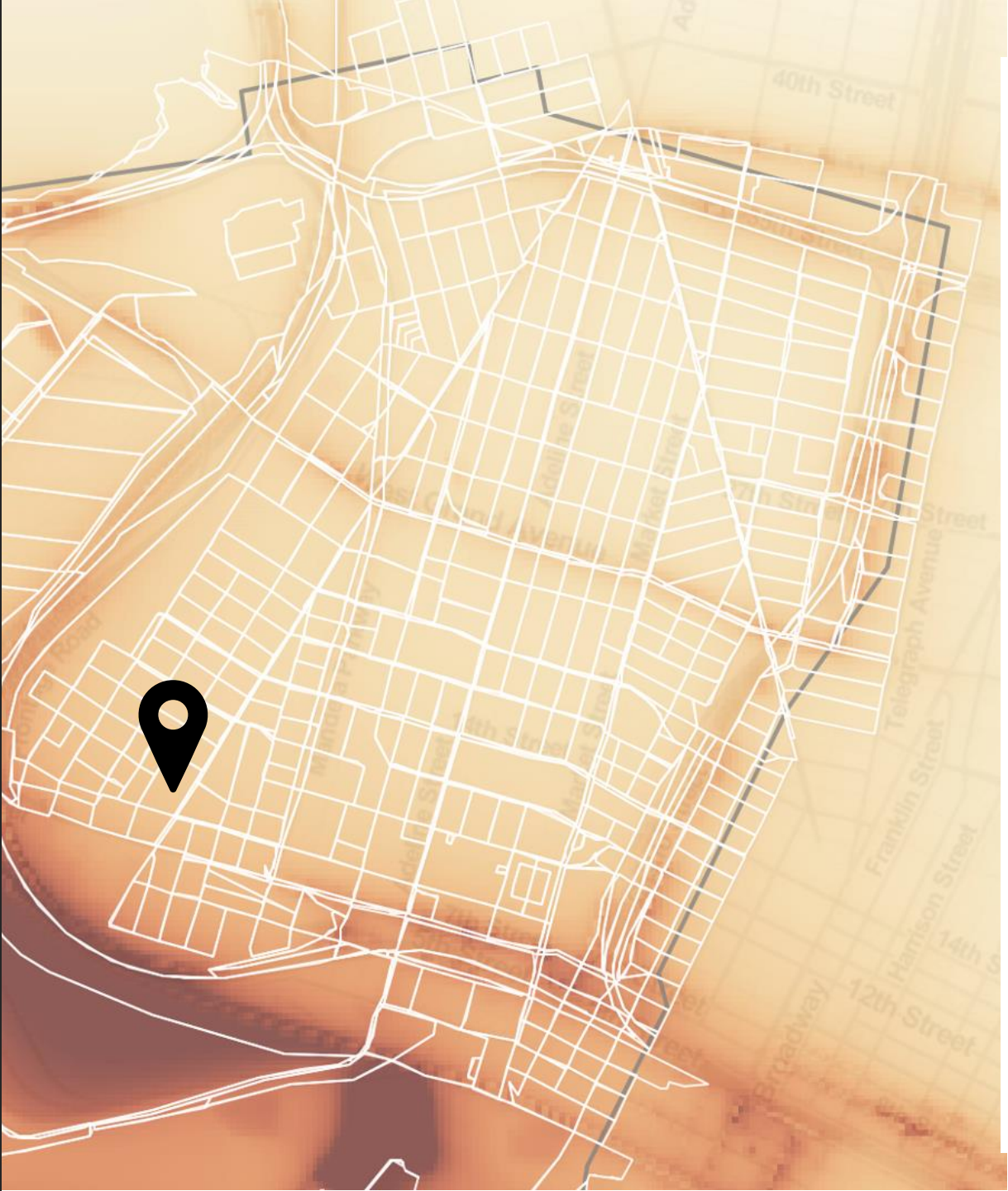
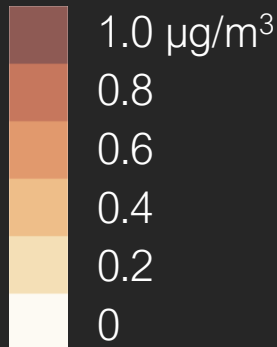
* Impacts at Martin Luther King Jr Elementary School.
† Excluding construction, cooking, and road dust.
‡ Drayage trucks = any location (Port, street, or highway).

Impact Zone:

Prescott Elementary School

Diesel PM

2019-03-04



Impact Zone:

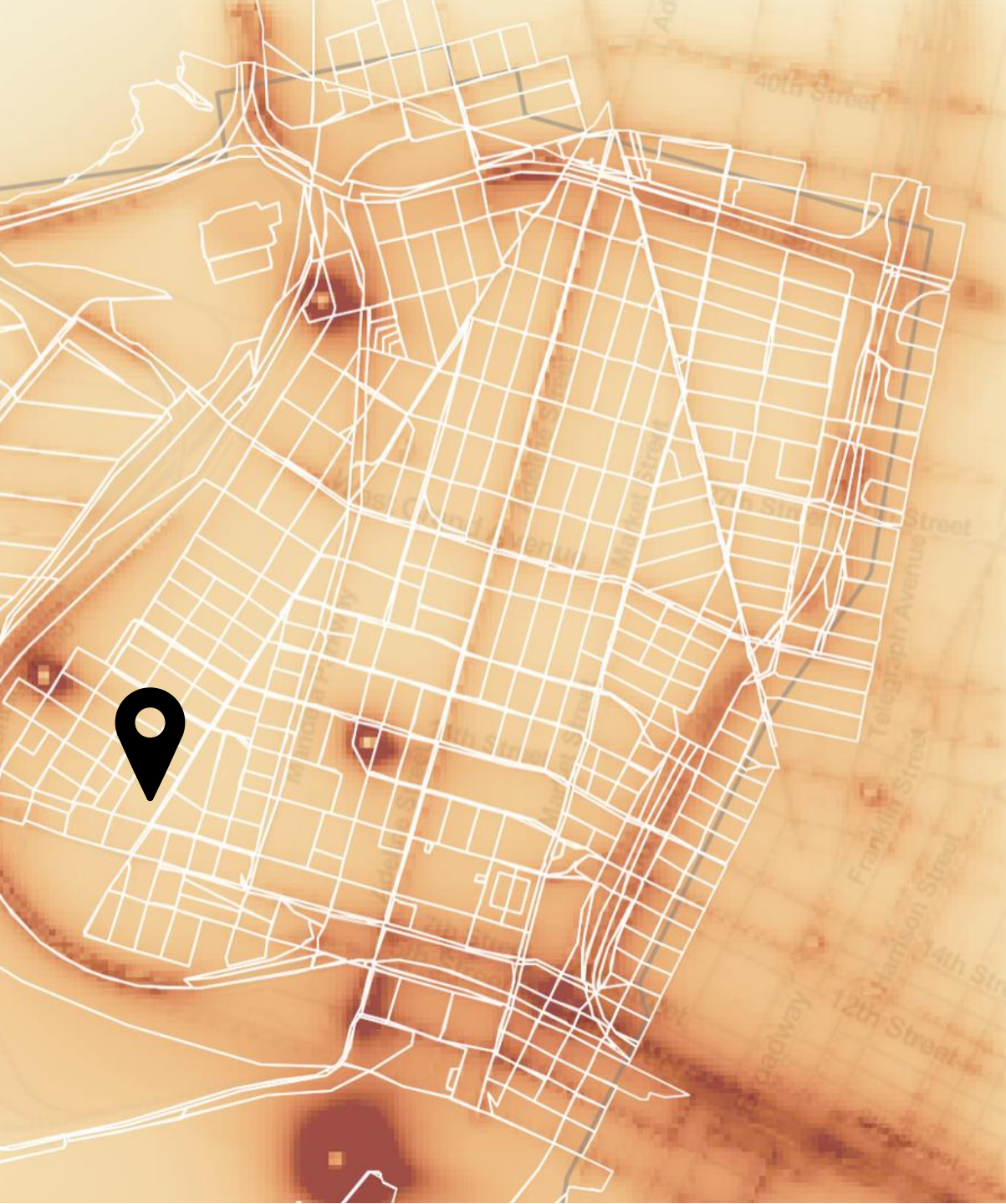
Impacts on Diesel PM ($\mu\text{g}\cdot\text{m}^{-3}$)				
Highway				
Heavy/Medium HD trucks	0.040	11%	0.040	
Passenger vehicles	0.002	1%	0.002	
Light HD trucks	0.001	0%	0.001	
Street				
Heavy/Medium HD trucks	0.022	6%	0.022	
Passenger vehicles	0.002	1%	0.002	
Light HD trucks	0.001	0%	0.001	
Port				
Harbor craft	0.055	15%	0.055	
OGV (berthing)	0.037	10%	0.037	
OGV (maneuvering)	0.023	6%	0.023	
Cargo handling	0.010	3%	0.010	
Railyard (OGRE)	0.008	2%	0.008	
Drayage trucks†	0.007	2%	0.007	
Dredging	0.005	1%	0.005	
Railyard (BNSF)	0.005	1%	0.005	
Bunkering (tugs + pumps)	0.003	1%	0.003	
Rail				
Railyard (UP)	0.066	18%	0.066	
Rail lines	0.032	9%	0.032	
Permitted				
EBMUD	0.001	0%	0.001	
Other facilities	0.001	0%	0.001	
Other				
Schnitzer (trucks)	0.018	5%	0.018	
Ferries	0.012	3%	0.012	
Schnitzer (ships at berth)	0.004	1%	0.004	
Truck-related businesses	0.002	1%	0.002	
		0.357	100%	

* Impacts at Prescott Elementary.
† Excluding construction, cooking, and road dust.
‡ Drayage trucks = any location (Port, street, or highway).

Prescott Elementary School

PM_{2.5}

2019-03-04



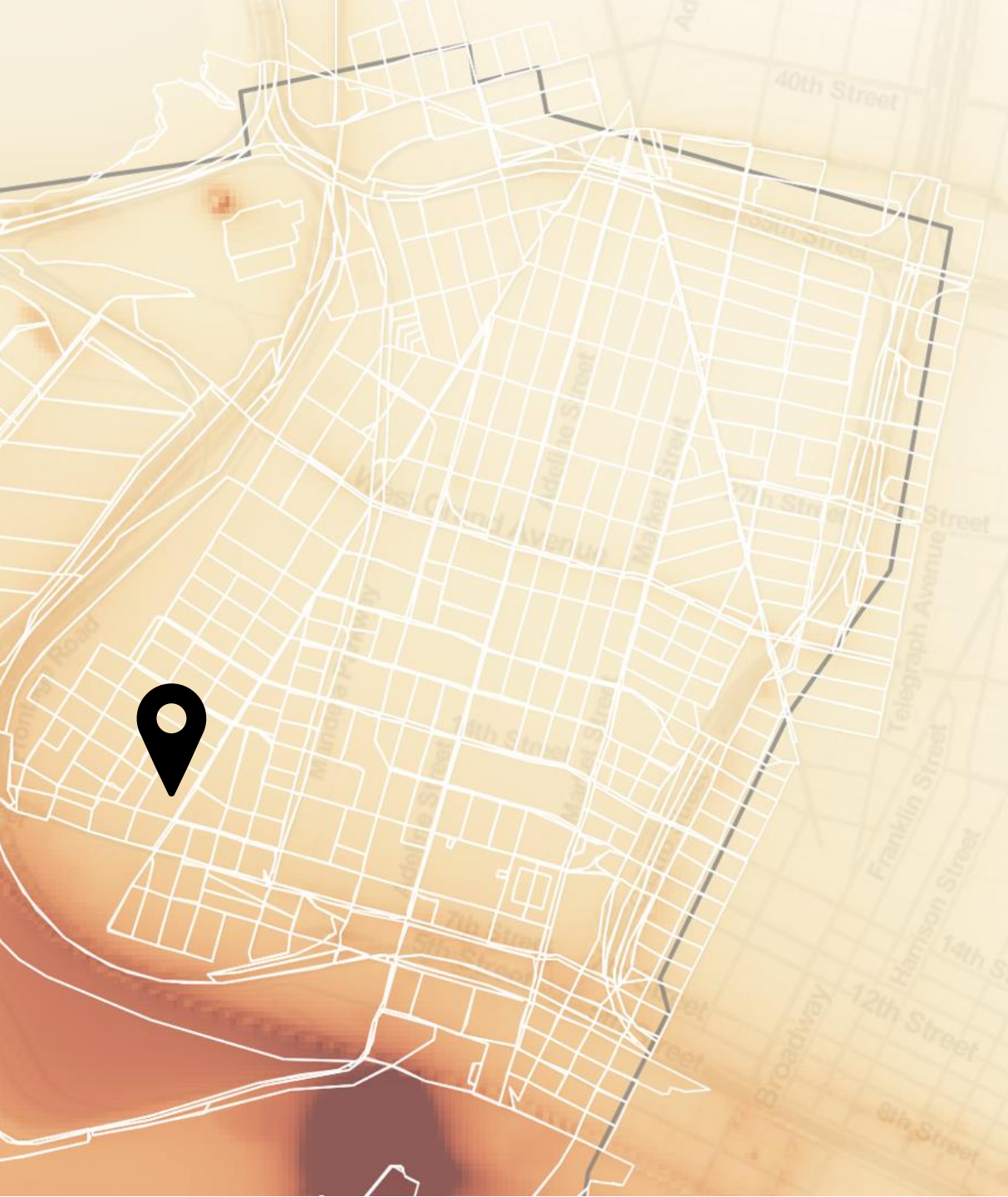
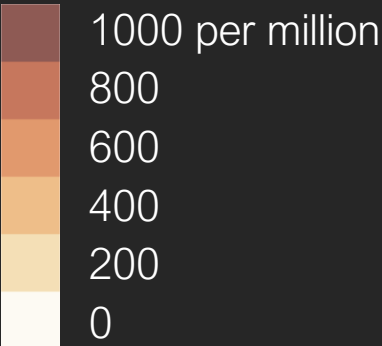
Impact Zone:

Impacts on PM _{2.5} (µg·m ⁻³)			
Highway			
Passenger vehicles	0.129	16%	0.129
Heavy/Medium HD trucks	0.050	6%	0.050
Light HD trucks	0.006	1%	0.006
Street			
Passenger vehicles	0.070	8%	0.070
Heavy/Medium HD trucks	0.026	3%	0.026
Light HD trucks	0.003	0%	0.003
Port			
Harbor craft	0.053	6%	0.053
OGV (berthing)	0.051	6%	0.051
Drayage trucks†	0.025	3%	0.025
OGV (maneuvering)	0.024	3%	0.024
Cargo handling	0.010	1%	0.010
Railyard (OGRE)	0.007	1%	0.007
Dredging	0.005	1%	0.005
Railyard (BNSF)	0.005	1%	0.005
Bunkering (tugs + pumps)	0.002	0%	0.002
Passenger vehicles	0.002	0%	0.002
Rail			
Railyard (UP)	0.060	7%	0.060
Rail lines	0.030	4%	0.030
Permitted			
CA Waste (10th St)	0.085	10%	0.085
Schnitzer (stationary)	0.070	8%	0.070
California Cereal	0.030	4%	0.030
EBMUD	0.025	3%	0.025
Other facilities	0.015	2%	0.015
Sierra Pacific	0.012	1%	0.012
CASS	0.001	0%	0.001
Other			
Schnitzer (trucks)	0.017	2%	0.017
Ferries	0.011	1%	0.011
Schnitzer (ships at berth)	0.004	0%	0.004
Truck-related businesses	0.001	0%	0.001
		0.829	100%

* Impacts at Prescott Elementary.
† Excluding construction, cooking, and road dust.
‡ Drayage trucks = any location (Port, street, or highway).

Cancer Risk

2019-03-04



Impact Zone:

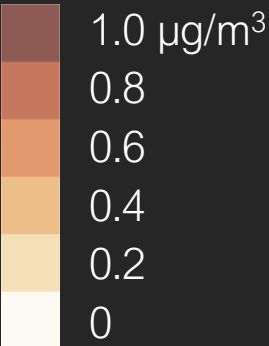
Impacts on Cancer Risk (30-yr, per million)				
Highway				
Heavy/Medium HD trucks	14.8	6%	14.8	
Passenger vehicles	2.4	1%	2.4	
Light HD trucks	0.9	0%	0.9	
Street				
Heavy/Medium HD trucks	7.3	3%	7.3	
Passenger vehicles	2.0	1%	2.0	
Light HD trucks	0.6	0%	0.6	
Port				
Harbor craft	40.6	15%	40.6	
OGV (berthing)	27.6	11%	27.6	
OGV (maneuvering)	17.2	7%	17.2	
Cargo handling	7.2	3%	7.2	
Railyard (OGRE)	5.8	2%	5.8	
Drayage trucks†	4.5	2%	4.5	
Dredging	4.0	2%	4.0	
Railyard (BNSF)	3.9	1%	3.9	
Bunkering (tugs + pumps)	1.9	1%	1.9	
Light HD trucks	0.1	0%	0.1	
Passenger vehicles	0.1	0%	0.1	
Rail				
Railyard (UP)	48.9	19%	48.9	
Rail lines	23.5	9%	23.5	
Permitted				
Schnitzer (stationary)	20.7	8%	20.7	
EBMUD	1.3	0%	1.3	
Other facilities	0.7	0%	0.7	
Other				
Schnitzer (trucks)	13.1	5%	13.1	
Ferries	8.7	3%	8.7	
Schnitzer (ships at berth)	3.2	1%	3.2	
Truck-related businesses	1.1	0%	1.1	
	262.1	100%		

* Impacts at Prescott Elementary.
† Excluding construction, cooking, and road dust.
‡ Drayage trucks = any location (Port, street, or highway).

West Oakland Senior Center

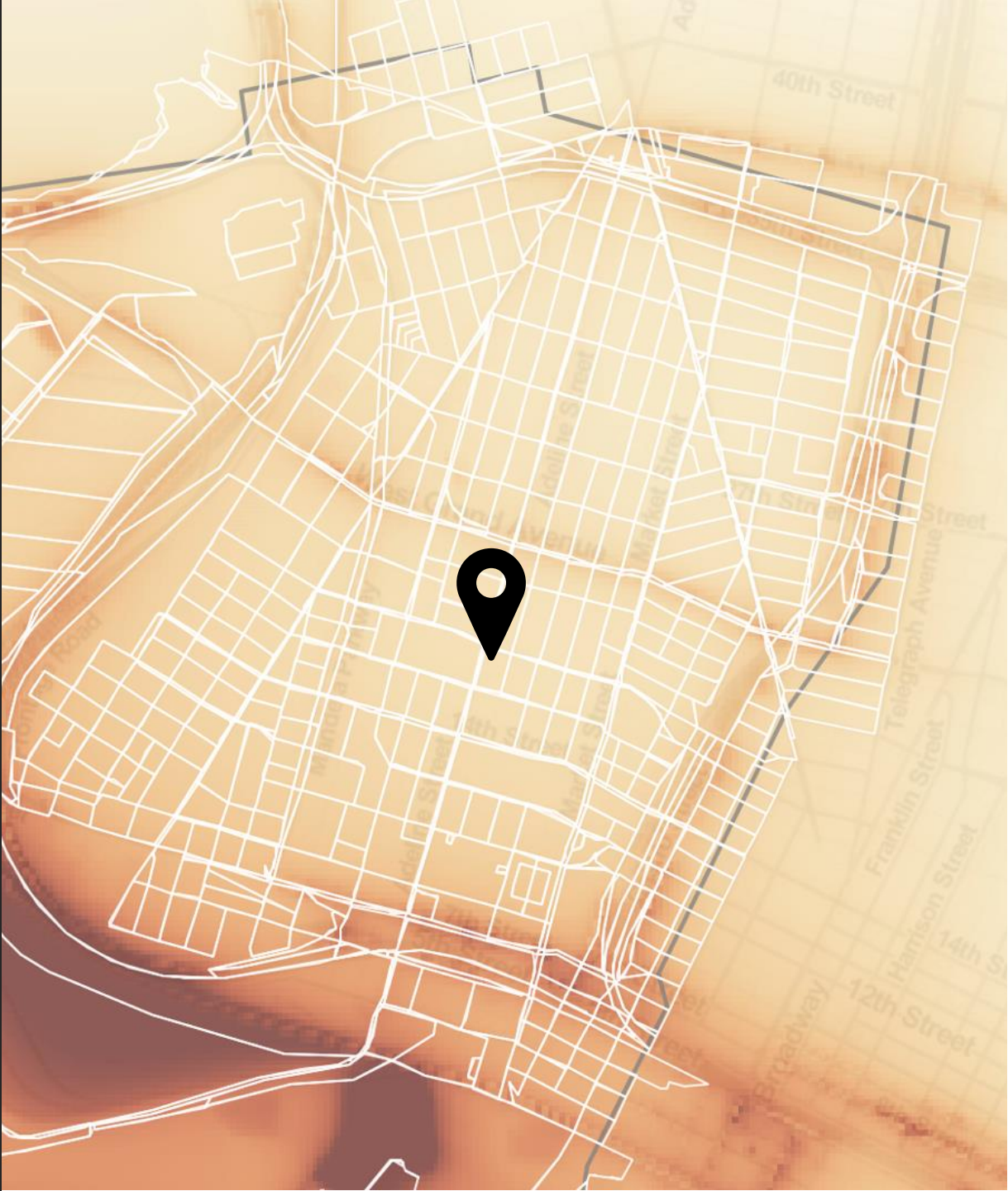
Diesel PM

2019-03-04



Impact Zone:

None



Impacts on Diesel PM (µg·m ⁻³)			
Highway			
Heavy/Medium HD trucks	0.031	14%	0.031
Passenger vehicles	0.002	1%	0.002
Light HD trucks	0.001	0%	0.001
Street			
Heavy/Medium HD trucks	0.038	17%	0.038
Passenger vehicles	0.005	2%	0.005
Light HD trucks	0.002	1%	0.002
Port			
Harbor craft	0.031	14%	0.031
OGV (berthing)	0.023	10%	0.023
OGV (maneuvering)	0.015	7%	0.015
Drayage trucks†	0.005	2%	0.005
Cargo handling	0.004	2%	0.004
Railyard (OGRE)	0.003	1%	0.003
Dredging	0.002	1%	0.002
Railyard (BNSF)	0.002	1%	0.002
Bunkering (tugs + pumps)	0.001	0%	0.001
Rail			
Railyard (UP)	0.019	8%	0.019
Rail lines	0.017	8%	0.017
Permitted			
EBMUD	0.002	1%	0.002
Other facilities	0.001	0%	0.001
Other			
Schnitzer (trucks)	0.010	4%	0.010
Ferries	0.008	4%	0.008
Schnitzer (ships at berth)	0.003	1%	0.003
Truck-related businesses	0.001	0%	0.001
		0.226	100%

* Impacts at West Oakland Senior Center.
† Excluding construction, cooking, and road dust.
‡ Drayage trucks = any location (Port, street, or highway).

West Oakland Senior Center

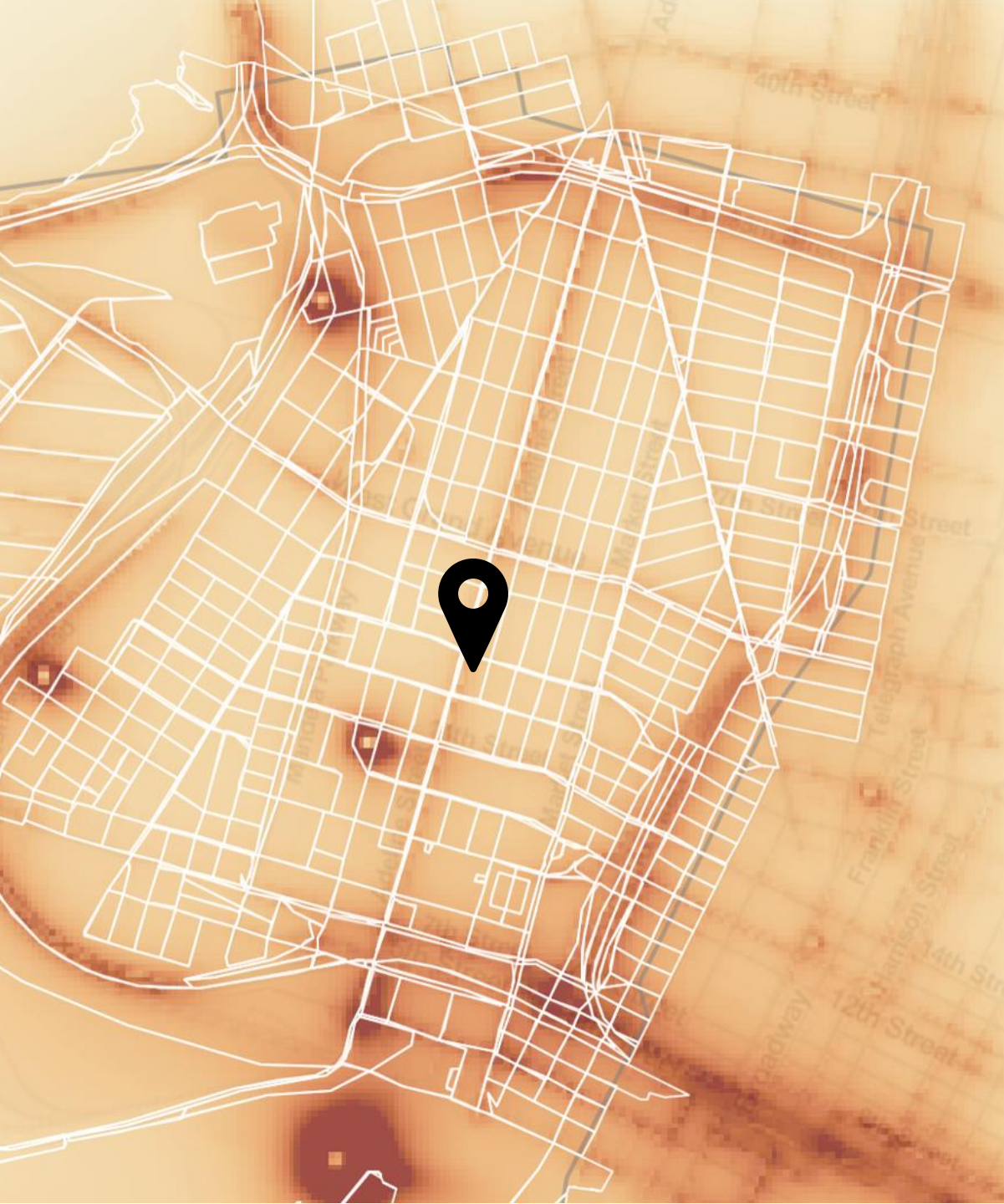
PM_{2.5}

2019-03-04



Impact Zone:

None



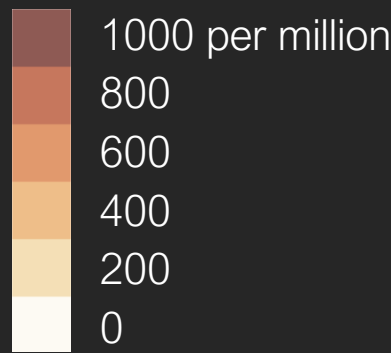
Impacts on PM _{2.5} (µg·m ⁻³)				
Highway				
Passenger vehicles	0.122	14%	0.122	
Heavy/Medium HD trucks	0.039	5%	0.039	
Light HD trucks	0.005	1%	0.005	
Street				
Passenger vehicles	0.218	26%	0.218	
Heavy/Medium HD trucks	0.046	5%	0.046	
Light HD trucks	0.007	1%	0.007	
Port				
OGV (berthing)	0.032	4%	0.032	
Harbor craft	0.030	4%	0.030	
OGV (maneuvering)	0.015	2%	0.015	
Drayage trucks†	0.013	2%	0.013	
Cargo handling	0.004	0%	0.004	
Dredging	0.002	0%	0.002	
Railyard (BNSF)	0.002	0%	0.002	
Railyard (OGRE)	0.002	0%	0.002	
Bunkering (tugs + pumps)	0.001	0%	0.001	
Passenger vehicles	0.001	0%	0.001	
Rail				
Railyard (UP)	0.018	2%	0.018	
Rail lines	0.016	2%	0.016	
Permitted				
California Cereal	0.095	11%	0.095	
Schnitzer (stationary)	0.043	5%	0.043	
EBMUD	0.042	5%	0.042	
Sierra Pacific	0.034	4%	0.034	
Other facilities	0.029	3%	0.029	
CA Waste (10th St)	0.013	2%	0.013	
CASS	0.004	0%	0.004	
Other				
Schnitzer (trucks)	0.009	1%	0.009	
Ferries	0.008	1%	0.008	
Schnitzer (ships at berth)	0.003	0%	0.003	
Truck-related businesses	0.001	0%	0.001	
		0.854	100%	

* Impacts at West Oakland Senior Center.
† Excluding construction, cooking, and road dust.
‡ Drayage trucks = any location (Port, street, or highway).

West Oakland Senior Center

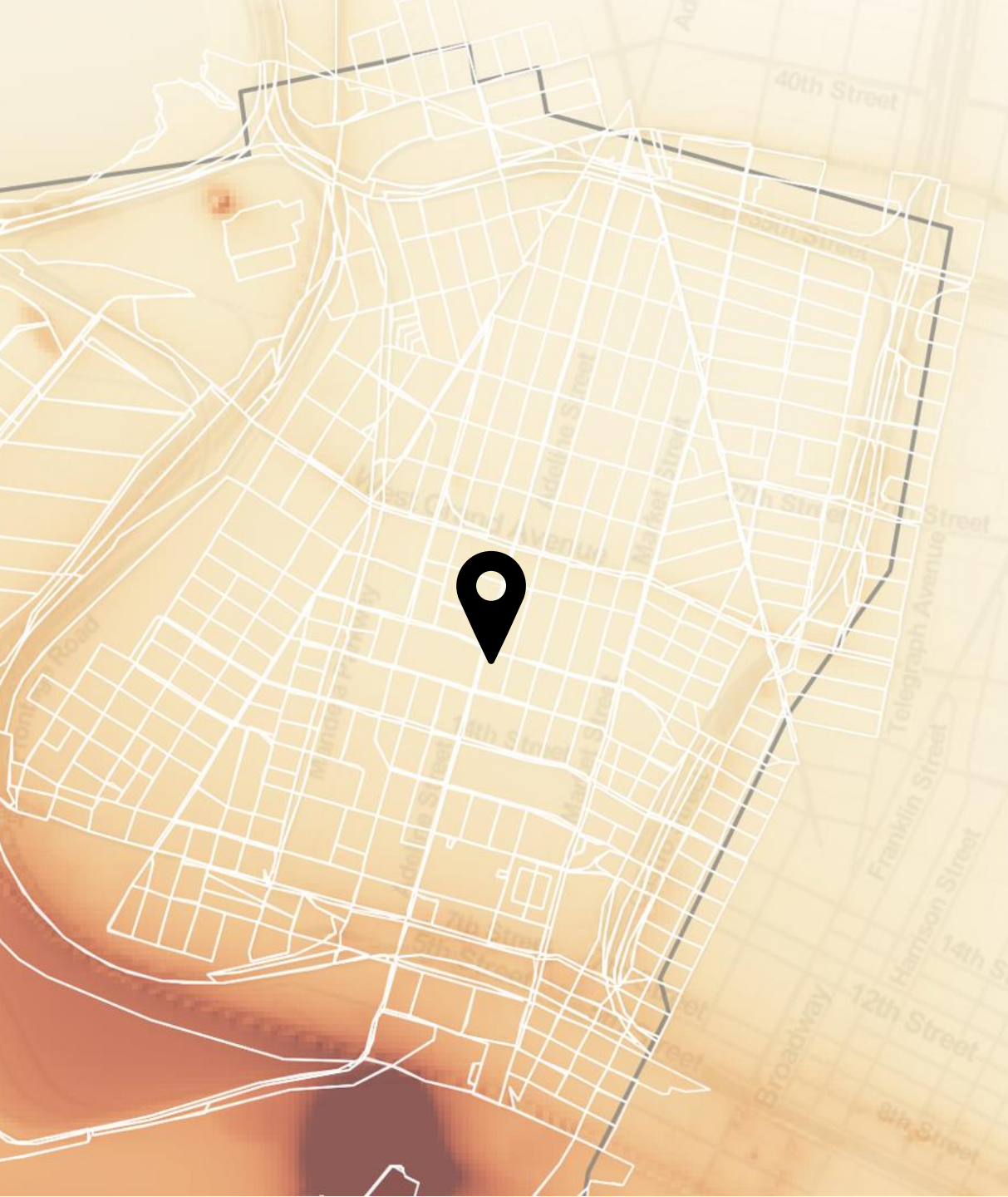
Cancer Risk

2019-03-04



Impact Zone:

None



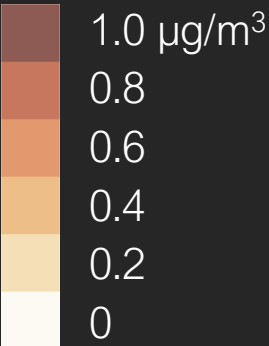
Impacts on Cancer Risk (30-yr, per million)				
Highway				
Heavy/Medium HD trucks	11.2	7%	11.2	
Passenger vehicles	2.4	2%	2.4	
Light HD trucks	0.7	0%	0.7	
Street				
Heavy/Medium HD trucks	12.9	8%	12.9	
Passenger vehicles	5.6	4%	5.6	
Light HD trucks	1.2	1%	1.2	
Port				
Harbor craft	23.0	15%	23.0	
OGV (berthing)	17.1	11%	17.1	
OGV (maneuvering)	10.9	7%	10.9	
Cargo handling	3.2	2%	3.2	
Drayage trucks†	2.7	2%	2.7	
Railyard (OGRE)	2.0	1%	2.0	
Dredging	1.8	1%	1.8	
Railyard (BNSF)	1.5	1%	1.5	
Bunkering (tugs + pumps)	1.0	1%	1.0	
Rail				
Railyard (UP)	14.5	9%	14.5	
Rail lines	13.0	8%	13.0	
Permitted				
Schnitzer (stationary)	12.9	8%	12.9	
EBMUD	2.0	1%	2.0	
Other facilities	1.1	1%	1.1	
Other				
Schnitzer (trucks)	7.3	5%	7.3	
Ferries	5.8	4%	5.8	
Schnitzer (ships at berth)	2.5	2%	2.5	
Truck-related businesses	0.7	0%	0.7	
				157.0 100%

* Impacts at West Oakland Senior Center.
† Excluding construction, cooking, and road dust.
‡ Drayage trucks = any location (Port, street, or highway).

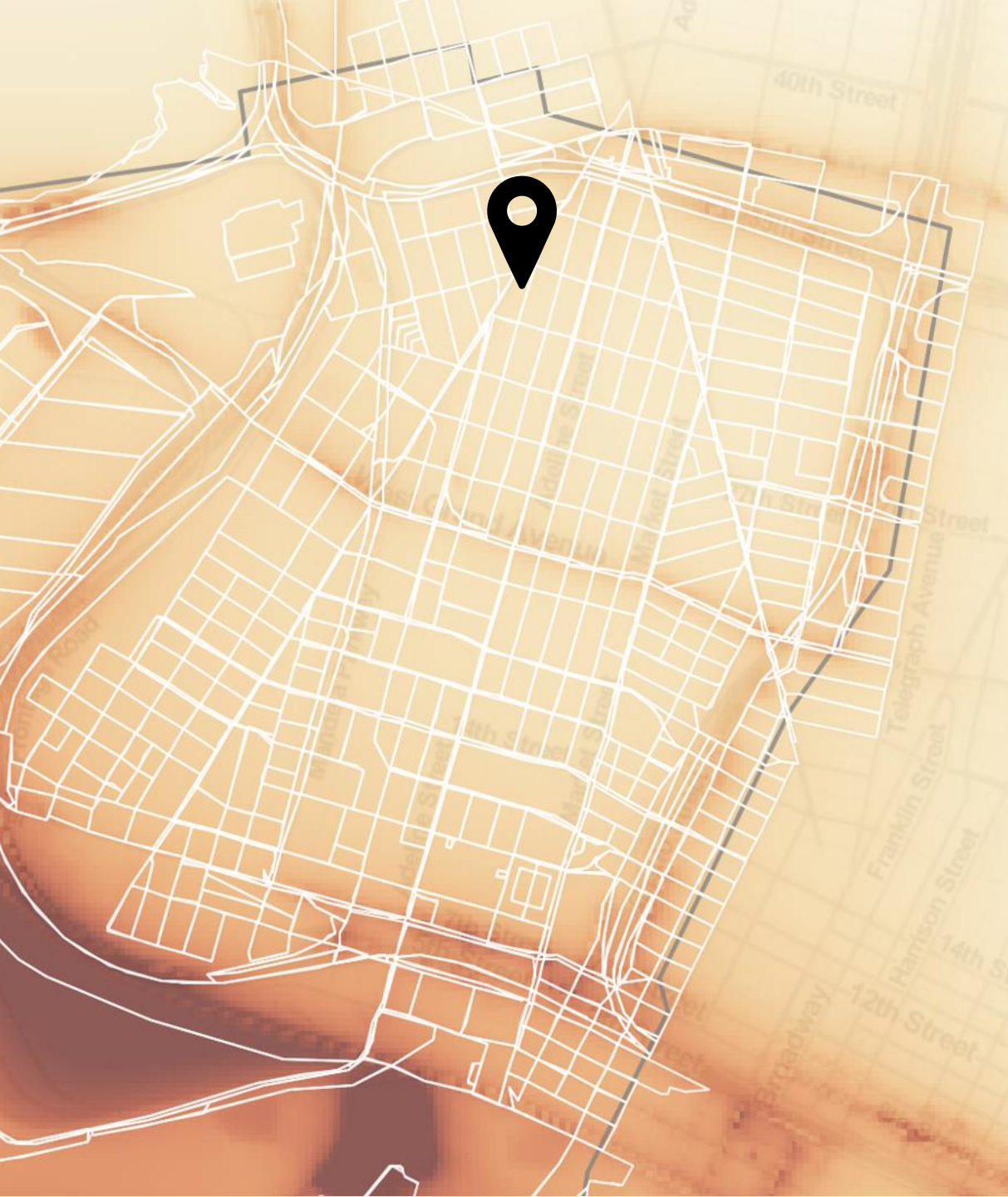
Willie Keyes Recreation
Center

Diesel PM

2019-03-04



Impact Zone:



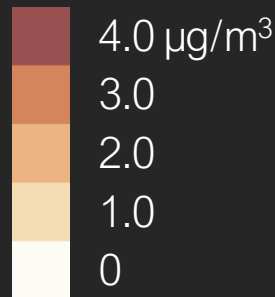
Impacts on Diesel PM ($\mu\text{g}\cdot\text{m}^{-3}$)³⁾

Highway			
Heavy/Medium HD trucks	0.040	19%	0.040
Passenger vehicles	0.005	2%	0.005
Light HD trucks	0.002	1%	0.002
Street			
Heavy/Medium HD trucks	0.052	25%	0.052
Passenger vehicles	0.003	1%	0.003
Light HD trucks	0.002	1%	0.002
Port			
Harbor craft	0.020	10%	0.020
OGV (berthing)	0.017	8%	0.017
OGV (maneuvering)	0.011	5%	0.011
Cargo handling	0.003	1%	0.003
Drayage trucks	0.003	1%	0.003
Dredging	0.002	1%	0.002
Bunkering (tugs + pumps)	0.001	0%	0.001
Railyard (BNSF)	0.001	0%	0.001
Railyard (OGRE)	0.001	0%	0.001
Rail			
Rail lines	0.017	8%	0.017
Railyard (UP)	0.009	4%	0.009
Permitted			
EBMUD	0.005	2%	0.005
Other facilities	0.002	1%	0.002
Other			
Ferries	0.004	2%	0.004
Schnitzer (trucks)	0.004	2%	0.004
Schnitzer (ships at berth)	0.002	1%	0.002
Truck-related businesses	0.001	0%	0.001
	0.207	100%	

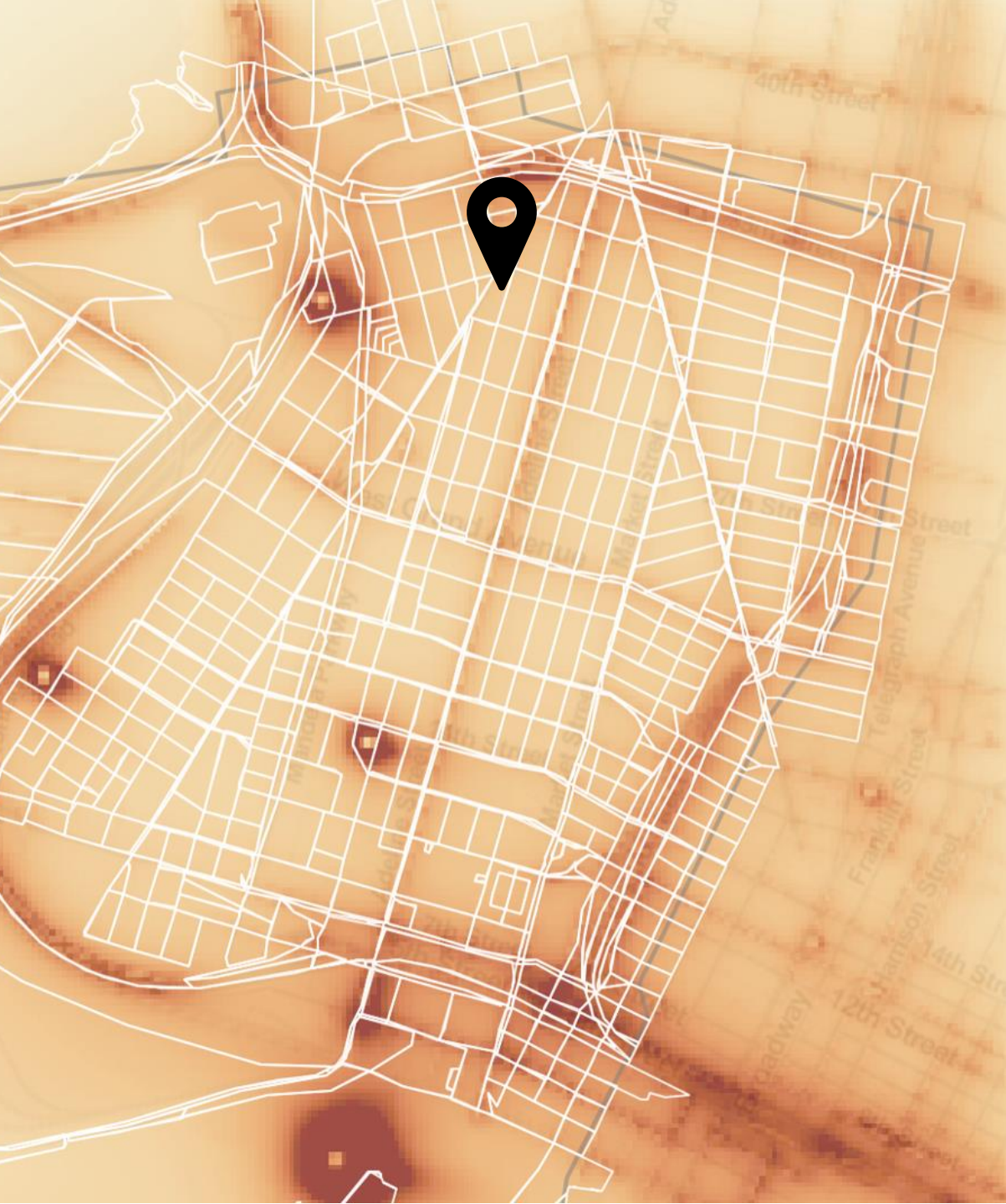
Willie Keyes Recreation
Center

PM_{2.5}

2019-03-04



Impact Zone:

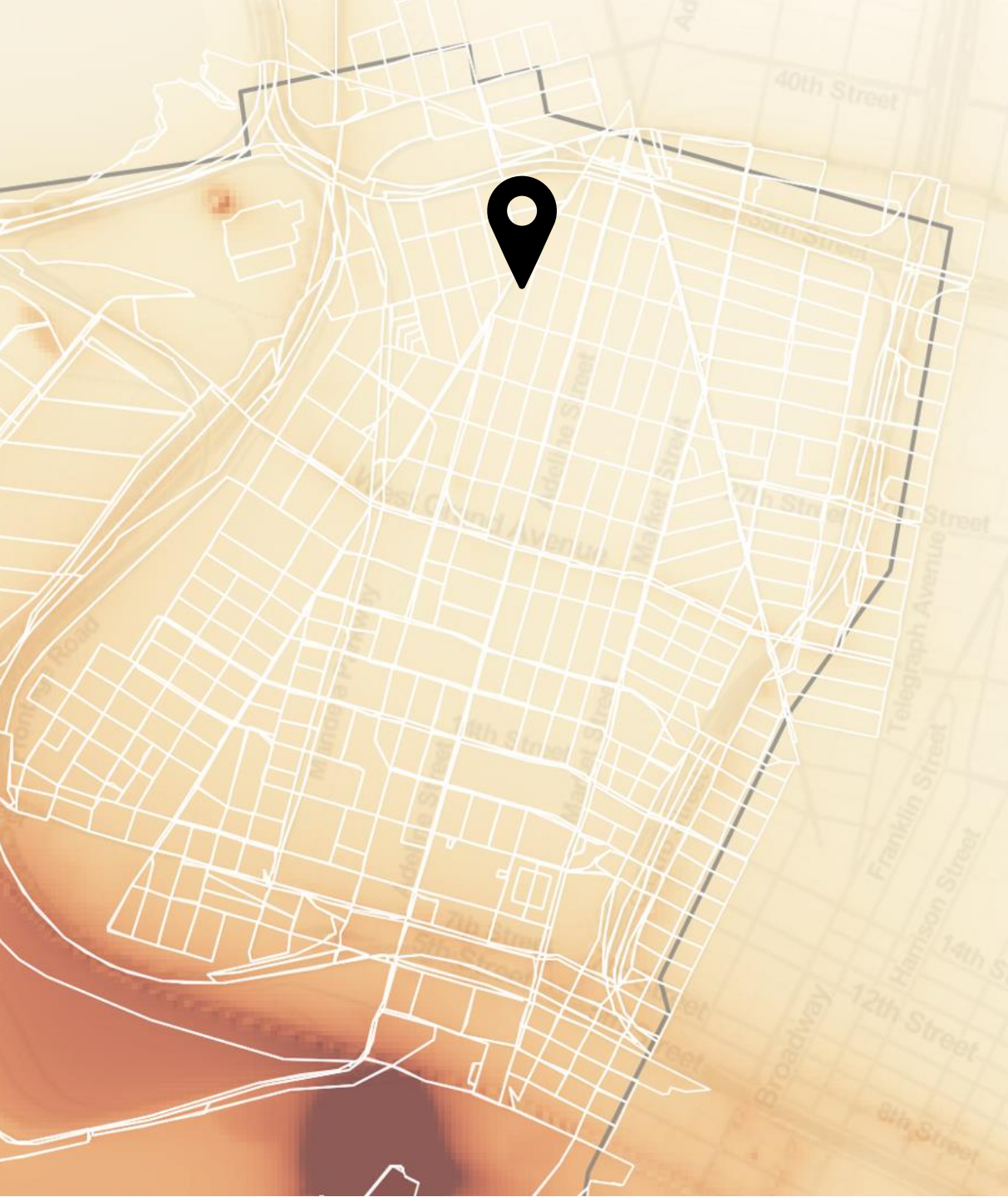
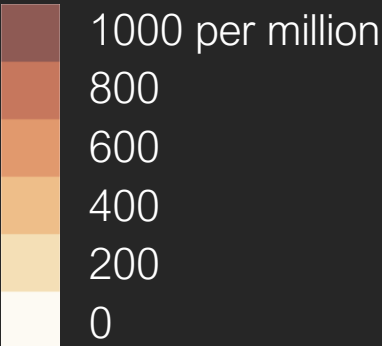


Impacts on PM _{2.5} (µg·m ⁻³)				
Highway				
Passenger vehicles	0.257	18%	0.257	
Road dust	0.098	7%	0.098	
Heavy/Medium HD trucks	0.050	3%	0.050	
Light HD trucks	0.008	1%	0.008	
Street				
Road dust	0.408	28%	0.408	
Passenger vehicles	0.113	8%	0.113	
Heavy/Medium HD trucks	0.063	4%	0.063	
Light HD trucks	0.006	0%	0.006	
Port				
OGV (berthing)	0.023	2%	0.023	
Harbor craft	0.019	1%	0.019	
Road dust	0.012	1%	0.012	
OGV (maneuvering)	0.011	1%	0.011	
Drayage trucks	0.008	1%	0.008	
Cargo handling	0.003	0%	0.003	
Bunkering (tugs + pumps)	0.001	0%	0.001	
Dredging	0.001	0%	0.001	
Passenger vehicles	0.001	0%	0.001	
Railyard (BNSF)	0.001	0%	0.001	
Railyard (OGRE)	0.001	0%	0.001	
Rail				
Rail lines	0.016	1%	0.016	
Railyard (UP)	0.008	1%	0.008	
Permitted				
EBMUD	0.122	9%	0.122	
Sierra Pacific	0.119	8%	0.119	
Other facilities	0.023	2%	0.023	
Schnitzer (stationary)	0.018	1%	0.018	
CASS	0.015	1%	0.015	
California Cereal	0.011	1%	0.011	
CA Waste (10th St)	0.006	0%	0.006	
Other				
Ferries	0.004	0%	0.004	
Schnitzer (trucks)	0.004	0%	0.004	
Schnitzer (ships at berth)	0.002	0%	0.002	
Truck-related businesses	0.001	0%	0.001	
	1.433	100%		

Willie Keyes Recreation Center

Cancer Risk

2019-03-04



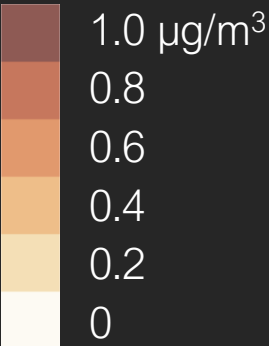
Impact Zone:

Impacts on Cancer Risk (30-yr, per million)			
Highway			
Heavy/Medium HD trucks	14.3	11%	14.3
Passenger vehicles	5.3	4%	5.3
Light HD trucks	1.1	1%	1.1
Street			
Heavy/Medium HD trucks	17.5	14%	17.5
Passenger vehicles	3.0	2%	3.0
Light HD trucks	1.0	1%	1.0
Port			
Harbor craft	14.9	12%	14.9
OGV (berthing)	12.5	10%	12.5
OGV (maneuvering)	7.9	6%	7.9
Cargo handling	2.0	2%	2.0
Drayage trucks	1.7	1%	1.7
Dredging	1.1	1%	1.1
Railyard (OGRE)	1.0	1%	1.0
Railyard (BNSF)	0.9	1%	0.9
Bunkering (tugs + pumps)	0.6	0%	0.6
Rail			
Rail lines	12.9	10%	12.9
Railyard (UP)	6.8	5%	6.8
Permitted			
EBMUD	6.1	5%	6.1
Schnitzer (stationary)	5.2	4%	5.2
Other facilities	1.4	1%	1.4
Other			
Ferries	3.2	3%	3.2
Schnitzer (trucks)	2.9	2%	2.9
Schnitzer (ships at berth)	1.4	1%	1.4
Truck-related businesses	0.6	0%	0.6
		125.3	100%

Daycare We Care

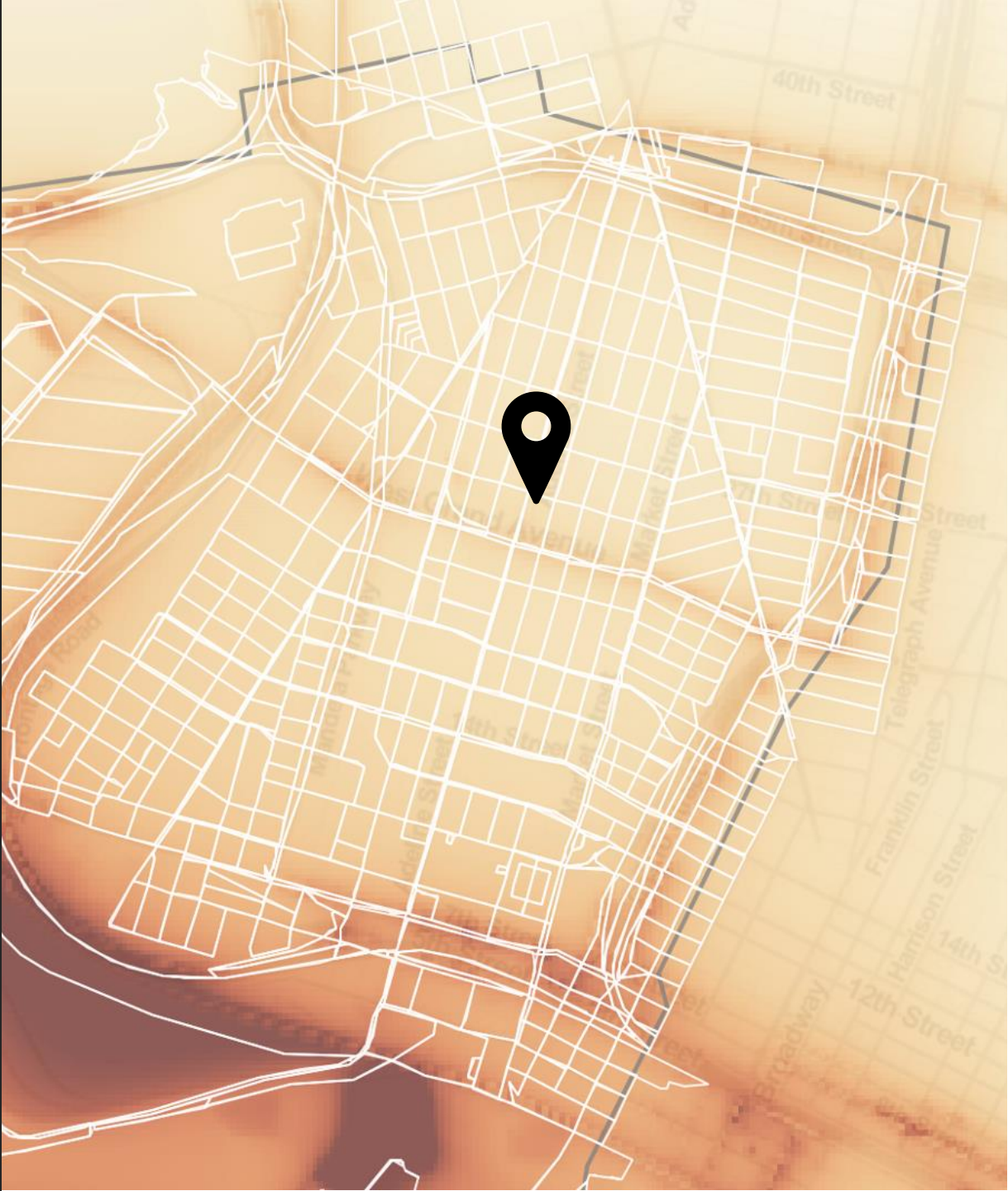
Diesel PM

2019-03-04



Impact Zone:

5



Impacts on Diesel PM ($\mu\text{g}\cdot\text{m}^{-3}$)
3)

Highway			
Heavy/Medium HD trucks	0.033	14%	0.033
Passenger vehicles	0.003	1%	0.003
Light HD trucks	0.001	0%	0.001
Street			
Heavy/Medium HD trucks	0.064	28%	0.064
Passenger vehicles	0.004	2%	0.004
Light HD trucks	0.003	1%	0.003
Port			
Harbor craft	0.025	11%	0.025
OGV (berthing)	0.019	8%	0.019
OGV (maneuvering)	0.012	5%	0.012
Drayage trucks	0.004	2%	0.004
Cargo handling	0.003	1%	0.003
Dredging	0.002	1%	0.002
Railyard (BNSF)	0.002	1%	0.002
Railyard (OGRE)	0.002	1%	0.002
Bunkering (tugs + pumps)	0.001	0%	0.001
Rail			
Rail lines	0.016	7%	0.016
Railyard (UP)	0.013	6%	0.013
Permitted			
EBMUD	0.002	1%	0.002
Other facilities	0.001	0%	0.001
Other			
Ferries	0.006	3%	0.006
Schnitzer (trucks)	0.006	3%	0.006
Schnitzer (ships at berth)	0.003	1%	0.003
Truck-related businesses	0.003	1%	0.003
		0.228	100%

Daycare We Care

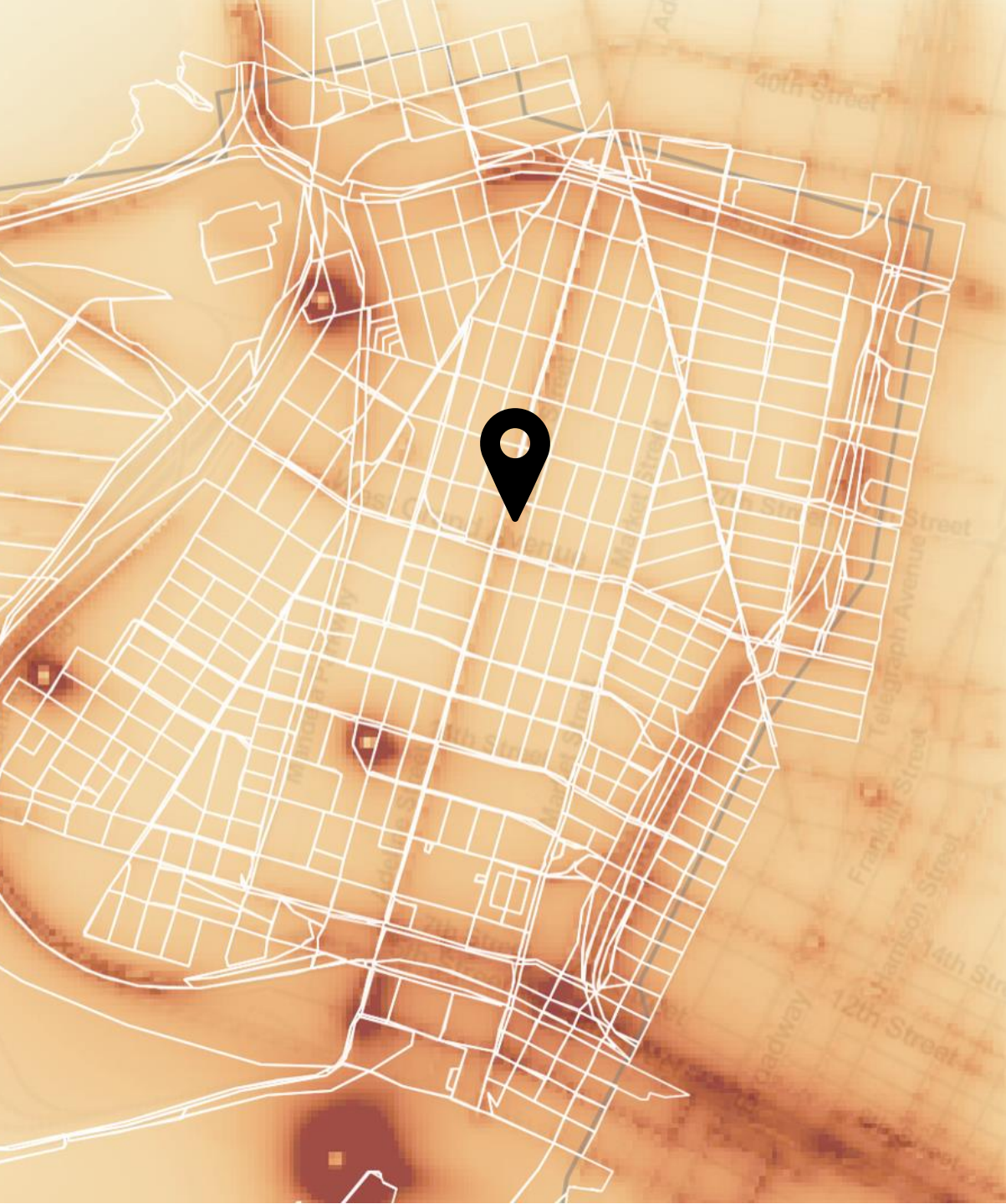
PM_{2.5}

2019-03-04



Impact Zone:

5

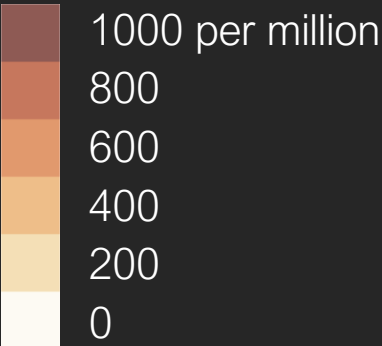


Impacts on PM _{2.5} (µg·m ⁻³)				
Highway				
Passenger vehicles	0.147	8%	0.147	
Road dust	0.060	3%	0.060	
Heavy/Medium HD trucks	0.041	2%	0.041	
Light HD trucks	0.006	0%	0.006	
Street				
Road dust	0.949	51%	0.949	
Passenger vehicles	0.182	10%	0.182	
Heavy/Medium HD trucks	0.077	4%	0.077	
Light HD trucks	0.010	1%	0.010	
Port				
OGV (berthing)	0.027	1%	0.027	
Harbor craft	0.024	1%	0.024	
Road dust	0.018	1%	0.018	
OGV (maneuvering)	0.013	1%	0.013	
Drayage trucks	0.012	1%	0.012	
Cargo handling	0.003	0%	0.003	
Dredging	0.002	0%	0.002	
Railyard (OGRE)	0.002	0%	0.002	
Bunkering (tugs + pumps)	0.001	0%	0.001	
Passenger vehicles	0.001	0%	0.001	
Railyard (BNSF)	0.001	0%	0.001	
Rail				
Rail lines	0.015	1%	0.015	
Railyard (UP)	0.012	1%	0.012	
Permitted				
Sierra Pacific	0.064	3%	0.064	
EBMUD	0.057	3%	0.057	
Other facilities	0.036	2%	0.036	
Schnitzer (stationary)	0.027	1%	0.027	
California Cereal	0.024	1%	0.024	
CASS	0.012	1%	0.012	
CA Waste (10th St)	0.009	0%	0.009	
Other				
Schnitzer (trucks)	0.006	0%	0.006	
Ferries	0.005	0%	0.005	
Schnitzer (ships at berth)	0.003	0%	0.003	
Truck-related businesses	0.003	0%	0.003	
		1.849	100%	

Daycare We Care

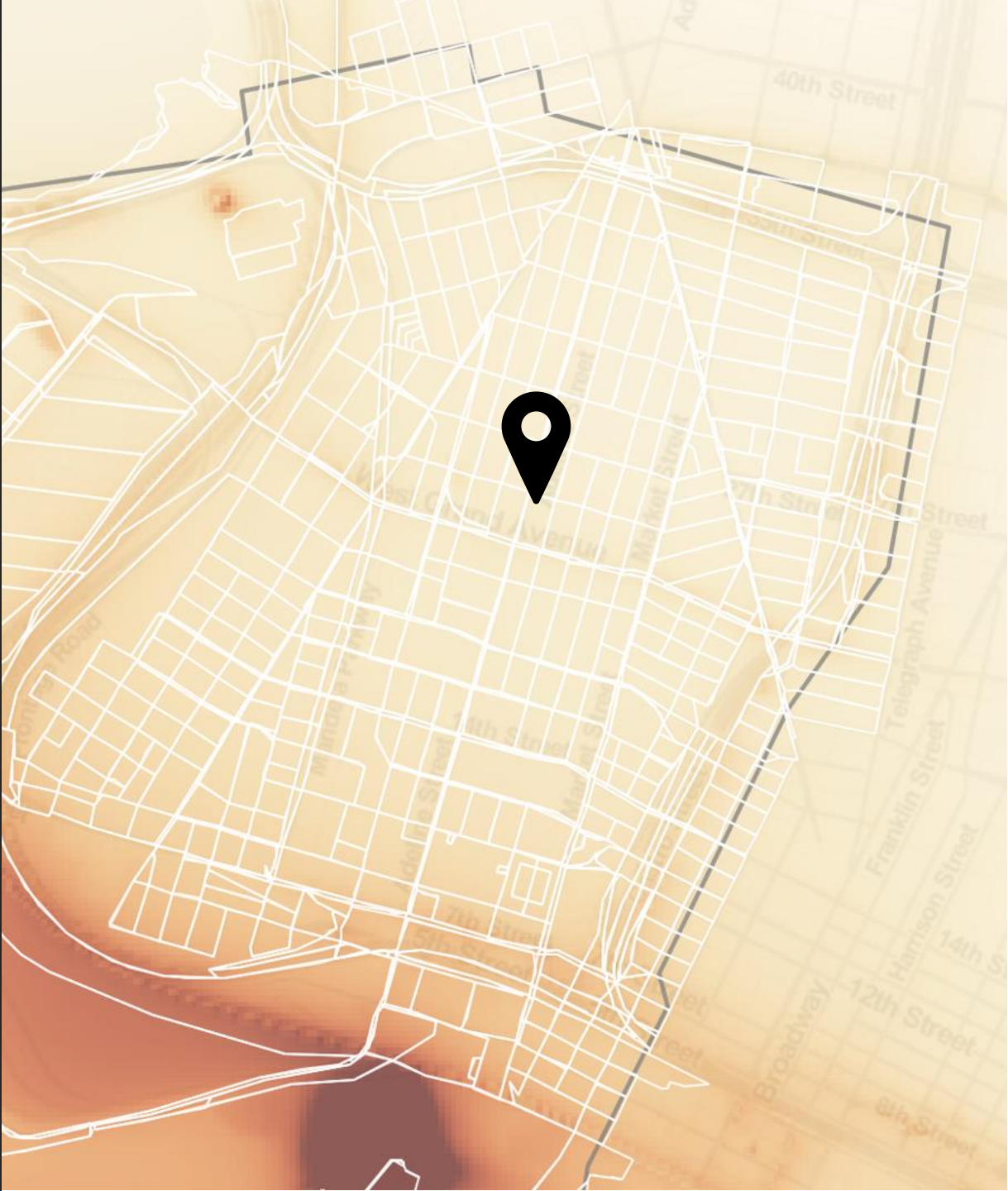
Cancer Risk

2019-03-04



Impact Zone:

5



Impacts on Cancer Risk (30-yr, per million)			
Highway			
Heavy/Medium HD trucks	11.8	8%	11.8
Passenger vehicles	2.9	2%	2.9
Light HD trucks	0.8	1%	0.8
Street			
Heavy/Medium HD trucks	21.7	15%	21.7
Passenger vehicles	5.0	4%	5.0
Light HD trucks	1.7	1%	1.7
Port			
Harbor craft	18.4	13%	18.4
OGV (berthing)	14.5	10%	14.5
OGV (maneuvering)	9.2	6%	9.2
Cargo handling	2.5	2%	2.5
Drayage trucks	2.4	2%	2.4
Railyard (OGRE)	1.4	1%	1.4
Dredging	1.3	1%	1.3
Railyard (BNSF)	1.1	1%	1.1
Bunkering (tugs + pumps)	0.8	1%	0.8
Rail			
Rail lines	11.9	8%	11.9
Railyard (UP)	9.4	7%	9.4
Permitted			
Schnitzer (stationary)	7.9	6%	7.9
EBMUD	2.8	2%	2.8
Other facilities	1.3	1%	1.3
Other			
Schnitzer (trucks)	4.5	3%	4.5
Ferries	4.2	3%	4.2
Truck-related businesses	2.5	2%	2.5
Schnitzer (ships at berth)	1.9	1%	1.9
		141.9	100%